

#### 4) Impact on human health: Land Degradation Water Table Depletion

#### Strategies for Climate Action:

##### 1) Mitigation: (to reduce)

Mitigation means to reduce the atmospheric concentration of Green House Gases to their normal values. Specific actions include

- 1) Afforestation: It is Biological Sequestration.
- 2) Increasing the share of Renewable energy sources like Solar and Wind in the overall energy mix of a country
- 3) Geologic Sequestration: In this  $\text{CO}_2$  is captured from large sources like thermal power plants and then artificially injected into sub-surface sedimentary rocks which are depleted oil and natural gas reserves.

2) Adaptation: Under this human ways of life are modified so as to minimise the negative impact of climate change on Human System.

Specific actions include:

- 1) Effective water management through application of micro-irrigation technique like drip & sprinkler irrigation for irrigating the crops.
- 2) Cultivating drought resistant varieties of crop like millets, oil-seeds etc. in drought prone areas of the country.

Subsaharan Africa  
↓  
Land degradation  
↓  
Agriculture failed  
↓  
famines +  
↓ Forced displacement of people  
= Climate change Refugees

SDG → 17 goals achieved by 2030  
→ Economic Growth  
→ Inclusive Growth  
→ Environmental well being  
→

Agri use of water  
Jal Shakti (89%) > 80%  
Irrigation  
 $\text{CO}_2$  fertilization may  $\Rightarrow$  photosynthesis but drawbacks outweighs the